

# Richmond Refinery LPS Alert



## #4 Boiler -- Operator Burned on Shin

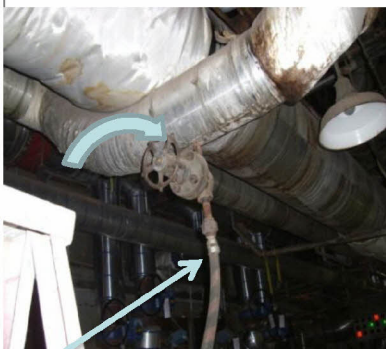


IMPACT: 19587

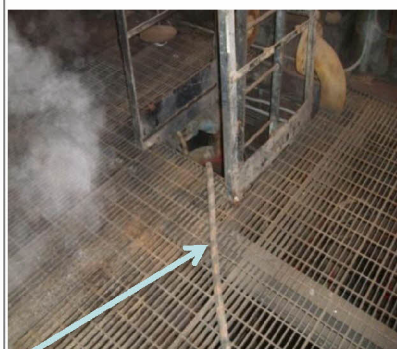
**Location:**  
Utilities #1 Power Plant

**Contact Information:**  
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### Photos:



Drain hose connected to BFW header



Hose draining into grated basement away from personnel

**Always remember to do  
your LPSA – because  
we care about you!**

### Incident Description:

On 8/9/2011, Utilities operators were purging the Boiler Feed Water (BFW) header of air using a drain hose connected to a bleeder. This bleeder had earlier been used to drain the header. The header was ready to be placed back in service when the injury occurred. At 10:40am, when the BFW (1200 psig at 240F) was introduced slowly, the energy from the BFW whipped up the drain hose releasing BFW that burned a nearby operator on the shin.

Investigation is in Progress

### Background:

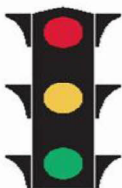
Operators were in the process of removing #4 Boiler from service, which involves draining the common BFW header to blind #4 Boiler, and then putting it back in service. The BFW supply header is common with #4, #5 and #7 Boilers. Operators had safely drained the BFW header from a bleeder through a steam hose routed to an unoccupied basement area.

### Immediate Actions Taken:

- 1) The BFW supply valve was immediately isolated at the header.
- 2) Chevron Fire Department was notified and responded immediately to treat the burn injury with a cooling gel to suppress blistering.
- 3) The injured person was taken to the refinery medical clinic for evaluation and further treatment.

## LOSS PREVENTION SELF-ASSESSMENT

**BEFORE BEGINNING ANY ACTIVITY/TASK/JOB, AFTER A LOSS OR NEAR LOSS, ANY UNUSUAL CIRCUMSTANCES:**



### ASSESS the risk!

What could go wrong?

What is the worst thing that could happen if something does go wrong?

### ANALYZE how to reduce the risk!

Do I have all the necessary Training and Knowledge to do this job properly?  
Do I have all the proper Tools and Personal Protective Equipment?

### ACT to ensure loss-free operations!

Take necessary Action to ensure the job is done properly!  
Follow written procedures! Ask for assistance, if needed!

**DO NOT PROCEED UNLESS ALL RISKS HAVE BEEN ADDRESSED!**

**For Everyone • Every Day • All the Time**

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